Al 1. Da a c

$$P_{DADE} = \frac{1}{2} \cdot h \cdot |ED|$$

$$P_{DADE} = \frac{1}{2} \cdot \frac{ab}{\sqrt{a^2 + b^2}} \cdot \frac{b^2}{\sqrt{a^2 + b^2}} = \frac{ab}{2(a^2 + b^2)}$$

2.
$$(x+2)(mx^2+2mx-3)=0$$

 $x=-2 \vee (mx^2+2mx-3)=0$
Linds -2 jest rowsze wawigzwniem, nieroterinie od parametra m.
I gdy m=0 to drugie www.nie mo postać: -3=0
sprecusti

ed. Io]

$$O = 4m^2 + 12m$$
 $4m^2 + 12m = 0 / 64$
 $m(m+3) = 0$
 $m = 0 \vee m = -3$
 $m = 40, -3$

$$\frac{-2m}{2m} \neq -2 \implies \text{Io}: m = -3$$

$$\frac{-1}{7} \neq -2$$

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$$\frac{-1}{7} \neq -2$$

end Ibs

•
$$4m^2 + 12m > 01:4$$
 $m(m+3) > 0$
 $m \in (-\infty, -3) \cup (0, +\infty)$

ITI: spinetimositi.

3.
$$a = 5$$
, $b = 12$, $c = 14$ $p = 31$

$$P = \sqrt{\frac{31}{2} \cdot (\frac{31}{2} - 5)(\frac{31}{2} - 12)(\frac{31}{2} - 14)} = -\sqrt{\frac{31}{2} \cdot \frac{21}{2} \cdot \frac{7}{2} \cdot \frac{7}{2} \cdot \frac{7}{2}} = -\frac{1}{4} \sqrt{31 \cdot 3^2 \cdot 7^2} = -\frac{21}{4} \sqrt{31}$$

$$P = \frac{abc}{4P_0} = \frac{5 \cdot 12 \cdot 46^2}{4 \cdot \frac{21}{4} \sqrt{31}} = \frac{120 \sqrt{31}}{31}$$

$$P = \frac{21\sqrt{31}}{4P_0} = \frac{21\sqrt{31}}{\frac{31}{2}} = \frac{21\sqrt{31}}{31 \cdot 2} = \frac{21\sqrt{31}}{62}$$

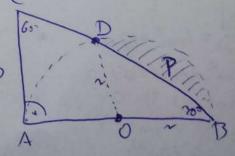
meghiching hat jest naprece bolus 14.

$$\frac{14}{\sin y} = \frac{240\sqrt{20}}{31} \Rightarrow \sin y = \frac{1}{240\sqrt{30}} = \frac{7.34\sqrt{30}}{1200} = \frac{7.34\sqrt{30}}{1200}$$

=> ~= 35 DATEC to A 30% 60% to wige (BC = 6, |AB| = 313 ABOD jest noummamienny => KBDO1=30°, & wher KBOD1 = 120° $P_{\omega}^{\text{Bod}} = \frac{120^{\circ}}{360^{\circ}} \cdot 11 \cdot \left(\frac{3\sqrt{5}}{2}\right)^{2} = \frac{1}{3} 11 \cdot \frac{27}{4} = \frac{9}{4} 11.$

$$P_{\text{ADJB}} = \frac{1}{2} \cdot \frac{35}{2} \cdot \frac{35}{2} \cdot \frac{35}{16} \cdot \frac{27}{8} \cdot \frac{5}{2} = \frac{275}{16}$$

$$P = P_{\text{odc}} = \frac{9}{4} \cdot \frac{275}{16} = \frac{9}{16} \cdot \left(41 - 3\sqrt{3}\right)$$



B2.
$$(x+1)$$
 $(mx^2+2mx-3)=0$
 $x=1$ v $mx^2+2mx-3=0$

Linbs -1 jest tawste notwigtaniem microlerinie ool panimetru in.

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I gdy $m=0$ to $f(x)=0$ ma postec' $-3=0$, sprievinosi'

II. gdy $m\neq 0$

II. gdy gdy

4B,
$$\alpha = 6$$
, $b = 8$, $c = M$

$$P = \frac{25}{2} \cdot (2\frac{5}{2} - 6) \frac{(25-8)}{2} \cdot \frac{25-M}{2} = \frac{15}{4} \sqrt{33}$$

$$= \frac{25}{2} \cdot \frac{13}{2} \cdot \frac{9}{2} \cdot \frac{2}{2} = \frac{1}{4} \sqrt{25 \cdot 9 \cdot 39} = \frac{15}{4} \sqrt{39}$$

$$P = \frac{dkc}{4R} = \frac{6 \cdot 8 \cdot M}{4 \cdot \frac{15}{4} \sqrt{33}} = \frac{528}{15 \cdot \sqrt{33}} = \frac{176 \sqrt{39}}{15 \cdot \sqrt{34}}$$

$$P = \frac{15}{4R} = \frac{15}{4} \sqrt{39} = \frac{15}{25} = \frac{3\sqrt{33}}{10}$$

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